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1959), on the basis of later field research, he completely rejects his previous stand.

In 1949, after his earlier publications, Le Besnerais (cf. 1954) made a census of the entire Capanaparo and Riecito rivers, discovering among other things:

A) That most Yaruro settlements had dry season locations on or near the river, banks or on the sand bars in the river, and wet season locations back from the rivers on higher sand dunes,

B) that there were corresponding house types for each kind of location,

C) that a great many of these settlements appear to have had two divisions mainly in the wet season locations — often at considerable distances from each other, sometimes very close,

D) that near all winter locations and in all settlements along the entire length of the Riecito and Capanaparo rivers gardens existed with standard crops mentioned in my own work (1961 *a*, 1962),

E) and, by implication, that these garden plots are not readily visible from the river nor from dry season locations.

Fiasson (1947), speaking of a trip probably made in 1945, mentions gardens for the Yaruro in the Capanaparo-Meta area. The missionary, Raymond Kook, showed me pictures in 1958 of gardens on the upper Sinaruco. And, in the neighborhood of the mission station, near Guachara and along the Caño del Medio and the Cunaviche River, all the Indians had horticulture. These Indians also reported gardens along the Arauca River. The linguist, Thomas P. Rootes, describes gardens along the Riecito and Sinaruco, and I have myself published in detail on Yaruro horticulture (1961 *a*).

In sum, present sources indicate horticulture for all Yaruro, going back at least to 1945 or 1946 and undoubtedly earlier — a period at maximum no more than twelve years after Petrullo's *dry-season* visit in 1934. It is hard to believe that the horticultural practice was diffused the length and breadth of Yaruro-land and integrated into a well-organized transhumance and even into the world view all in fifteen years. Nevertheless belief is not adequate proof. The only recourse is to try to resolve the problem by earlier evidence.

The second major difference between my findings and those of Petrullo relates to the asserted existence of matrilineal "clans", characterised, in localities, by a sib core of women and their children plus the locally inmarried husbands. Nowhere in Petrullo is proof given for the *unilineality* which is implied by the term clan, though the *matrifocality* seems genuinely confirmed by the genealogies reproduced. Matrifocality is not congruent with matrilineality, and, try as I might, I was not able to establish the latter. I am not ready to assert that matrilineality therefore does not, or did not, exist but I was quite unable to elicit any evidence for it.

A related aspect is, of course, exogamy. Petrullo claims that marriage can only occur reciprocally between the two clans, marriage *within* which would

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constitute incest. I believe one can show from Petrullo's own genealogies that either incest occurred, possibly as a result of the process of depopulation, or that clan exogamy did not exist at all, since there were no clans, and the marriages concerned were not incestuous.

A third important feature that Petrullo asserts existed among the Yaruro is matrilateral cross-cousin marriage. Aside from the fact that, associated with the matriliny Petrullo's matriclans would possess, one would theoretically expect patrilateral cross-cousin marriage, if preferential cross-cousin marriage existed at all, I was unable to confirm unilateral cross-cousin marriage preferences but got statements of preference for bilateral cross-cousin marriage as well as reports of bilateral cross-cousin marriage and bilateral marriages between an ego and a parallel cousin's offspring.[2]

A fourth important feature discussed by Petrullo is totemism. The clans are assertedly connected respectively with the snake god Poanã and the jaguar god, Tió. Not only was I unable to confirm this, but the ethnographic evidence, on the whole, appears to contradict it directly. Totemism, for example, would be quite inconsistent with the social organization of the *ɪɔŋ'bə* ceremony, the central socio-religious institution of the Yaruro which I have described elsewhere (1960, 1961 *b;* cf., also, Le Besnerais, 1951, 1950 *b,* and, with Dreyfus-Roche, 1954).

Thus we have not only ethnographic disagreement among three observers, but also the theoretical improbability of the original description which attaches matrilineal clanship to hunting and gathering nomadism, and to matrliateral cross-cousin marriage. Virtually all further published anthropological material on the Yaruro has taken the Petrullo report at face value. Some of these publications include a caveat about the report, but, unfortunately, others have, explicitly or implicitly, assumed its correcteness since they have used it as the starting point for historical, functional, or evolutionary reconstructions.[3]

Specifically the assertion is repeatedly made by Steward, Kirchhoff, and Steward and Faron that the Yaruro are one of a series of marginal tribes left over from an earlier wave of settlement and occupying interstitial areas among more advanced peoples. Steward (1946-1950, in various passages, esp. Vol. 5, pp. 678 *ff.*) tries to justify the marginal classification generally by designating characteristic traits present as well as those that should be absent. The Yaruro possess a large number of the latter, including horticulture, basketry, canoes,

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[2] The theoretical expectation of *patrilateral* cross-cousin marriage with matriliny is discussed in Homans and Schneider (1955, especially pp. 56-57) and elsewhere. The preference for bilateral marriage with cross-cousins or with offspring of parallel cousins is also found among the Jívaro (cf. Steward and Métraux, 1948, especially p. 626). This fact, with a great many similar traits of social organization and world view shared by the two cultures, is of considerable interest to the cultural origin of the groups discussed later in the paper where other parallels are mentioned.

[3] Cf. Kirchhoff, 1948, *a:* Steward, 1946-1950; Vol. 3, pp. 897-899; Vol. 5, pp. 669-679, *et passim;* Steward and Faron, 1959; Layrisse, *et al.,* 1961; Needham, 1960; Murdock, 1957.

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and warfare as supra-tribal distribution mechanisms. It is interesting to note that the cultural characteristics ascribed to each of the peoples — "warlike," "peaceable," "brabo" — are ecologically funcional, in that they mirror value orientations which tend to drive people to maximize the food resources in ways appropriate to their socio-ecological environments.

Fourth, the evidence seems to me at present to point to the existence throughout the area, of pre-hispanic horticulture, enjoyed by at least some groups within each tribe, if not by all groups in part of every year. The evidence comes from the reports of travellers, missionaries, and from the archeological remnants, such as they at present are. The main Spanish and Venezuelan acculturational effects with respect to subsistence appear to have been the introduction of iron tools; seeds and plants not of native origin, such as sugar cane and bananas; and, here and there, cattle, pigs, or chickens.

Fifth, the evidence suggests a steady deculturation in an area capable of maintaining a more elaborate level of culture. One may hypothesize either that groups like the Yaruro came into the area with a level of culture reflected by the Arauquín-style remants and then gradually deculturated both pre-hispanically and in post-conquest times, to their present level, or that they intruded into such a culture at a time when they themselves were at a more elaborate level, and then deculturated largely under Spanish influence. It will probably be possible to shed light on this question with the historical data.

In summary, if these hypotheses are correct, the entire interpretation of the llanos area between the Andes and the Orinoco highlands, as well as of other nearby areas assertedly inhabited by so-called marginal tribes, is quite different from that presented by the *Handbook of South American Indians*. The marginals of northern South America seem to evanesce, and a picture of a highly complex ecological system in which horticulture is of central importance, even if not quantitatively predominant in this ecologically restricted area, appears. This picture seems to conform better to the recent archeological hypotheses of Cruxent and Rouse (1958-1959), to the historical mentions of horticulture, to the presently scanty archeological and linguistic materials, and to more recent ethnological data.

I have not, as yet, been able to make any determination whatever with respect to clanship, totemism, or matricross-cousin marriage. I hope that with a study of the word lists discovered and with possible older ethnographic data that this problem may be resolved. My own field data suggests an organization into demes with bilateral marriages between cross-cousins or between an ego and his parallel cousin's offspring. This interpretation incidentally tallies with, or at least does not contradict, the data, such as the genealogies, kin terminology, and locality features described by Petrullo in all pasages where inferences and assertions as to the existence of these institutions do not occur.